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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/600,804 06/19/2003		Lawrence C. Gunn III	LUX-P002	9721
75	7590 03/22/2005		EXAMINER	
Fernandez & Associates, LLP			PALMER, PHAN T H	
PO Box D Menlo Park, CA 94026-6402			ART UNIT	PAPER NUMBER
			2874	

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/600,804	GUNN ET AL.				
		Examiner	Art Unit				
		PHAN T.H. PALMER	2874				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)🖂	Responsive to communication(s) filed on 25 Ja	nuary 2005.					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Dispositi	on of Claims						
4)🖂	Claim(s) 1-23 is/are pending in the application.						
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) <u>21-23</u> is/are withdrawn from consideration.						
5)⊠	5)⊠ Claim(s) <u>20</u> is/are allowed.						
6)⊠							
7)	☐ Claim(s) <u>6,7,14 and 17-19</u> is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	ion Papers						
9)[The specification is objected to by the Examine	г.					
10)⊠ The drawing(s) filed on 19 June 2003 is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
`	See the attached detailed Office action for a list	or the contined copies flot receive	PHAN T. H. PALMER PRIMARY EXAMINER				
Attachment(s) 03/19/2005							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Linterview Summary (PTO-413) Paper No(s)/Mail Date					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		Patent Application (PTO-152)				

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DETAILED ACTION

1. Applicant's cooperation is requested in correcting any error of which applicant may become aware in the specification.

Response to Election

2. Applicant's election of Group I, claims 1-20, in the reply filed on 01/25/2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 21-23 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected claims, there being no allowable generic or linking claim.

Drawings

3. This application has been filed with formal drawings.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

Art Unit: 2874

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5, 8-13, and 15-16 are rejected under 35 U.S.C. 102(e) as being anticipated by George (US 2003/0002127 A1).

The George reference discloses in figure 1, a polarization beam splitter comprises a substrate, two waveguides formed in the substrate for conducting different polarization components, and an evanescent coupler acting between the waveguide to split an input light signal incorporating TE and TM polarization component into an output signal consisting of the TE polarization component conducted along respective waveguide, and two waveguide are substantially identically with respect to one another.

With regard to claims 1-5, 8-13, and 15-16, the George reference discloses all the claimed invention.

See more detail in:

abstract lines 1-14; Figures 1, 2, and 4;

page 2, paragraphes [0012], [0013] and [0014];

page 3, paragraphes [0031], [0032];

page 4, paragraph [0033], [0034]; and

claims 1, 5, 6, 9, 10 and 11.

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Allowable Subject Matter

5. Claims 6, 7, 14, and 17-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The George reference does not disclose the first and second signal processing system are monolithically fabricated on a silicon substrate or silicon on silicon on insulator (SOI) substrate. These substrate are critically, since a result is low loss signal and successfully built in silicon integrated circuits.

Claim 20 are allowed.

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHAN T.H. PALMER whose telephone number is (571) 272-2354. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RODNEY B. BOVERNICK can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PTHP 03/19/2005

PHAN T. H. PALMER PRIMARY EXAMINER

ran V. H. Palme